

Antelope Orion Studio Synergy Core - Zvučna kartica

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Multiple line outputs can be connected over a DB25 breakout cable, and with two insert points, you can route external gear into the signal path. Need to reamp a guitar part? Now you can, thanks to two reamp outputs. Though the preamps have been designed with sonic transparency in mind, they can be bypassed entirely, should you want to output directly to the unit's converters.

The interface itself boasts the acoustic clocking made famous by Antelope for rock-solid stability as

well as increased detail and separation in musical performances. You can sync other devices to the clock thanks to wordclock BNC connections.

The Orion Studio Synergy Core is outfitted with two FPGA chips and six ARM-based DSP processors to handle Antelope's ecosystem of modeled plug-ins, which leverage FPGA technology to deliver emulated pieces of real-world gear in precise detail. There are 50 plug-ins from Antelope included with the interface, and more are available on Antelope's webstore.

Antelope has gone to great lengths to secure a solid sonic performance with 130 dB of dynamic range at the monitoring outputs and a conversion stage that aims to rival mastering converters used in monitoring. Use this interface for anything that demands the attention of 12 audiophile-grade DACs, low-latency performance, a quiet noise floor, and high sample rates.

FPGA Processing

The Orion Studio brings Synergy Core FX processing platform to its next stage of evolution. With two proprietary Field Programmable Gate Array (FPGA) chips and six ARM-based DSP processors onboard, the computing power contained in this interface is more than enough to handle most sessions.

Included FX

The unit comes with fifty real-time effects, including:

- Gyraf Gyratec IX (Tube Mic Preamp)
- VCA160 (Compressor / Limiter)
- Stay-Levin (Tube Compression Amplifier)
- FET-A76 (FET Compressor)
- X903 (Compressor / Limiter)
- PowerFFC (Compressor)
- VEQ-HLF (Passive High/Low Filter)
- BA-31 (Vintage Mic Preamp)
- ALT-436C (Tube Compressor Amplifier)
- FET-A78 (FET Compressor Limiter)
- SMT-100A (Tube Leveling Amplifier)
- VEQ-1A (Tube Equalizer)
- VMEQ-5 (Tube Mid-Range Equalizer)
- BAE-1023 (3-band Vintage EQ)
- NEU-PEV (Passive Vintage EQ)
- NEU-W492 (5-band Vintage EQ)
- NEU-W495 (3-band Vintage Mastering EQ)
- VEQ-4K BROWN (Legendary Vintage EQ)
- VEQ-4K ORANGE (Legendary Vintage EQ)
- VEQ-4K PINK (Legendary Vintage EQ)
- VEQ-STU 089 (Vintage EQ)

VEQ-STU 169 (Vintage EQ)
VEQ-STU 900 (Vintage EQ)
Clear Q (Parametric EQ)
Auraverb (Reverb)
Power EX (Expander)
Power Gate (Gate)
Master De-Esser (De-Esser)
Plexi 59 (UK) (Tube Guitar Amp)
Bass SuperTube VR (Tube Guitar Amp)
Darkface 65 (US) (Tube Guitar Amp)
Top30 (UK) Bright (Tube Guitar Amp)
Tweed Deluxe (US) (Tube Guitar Amp)
Overange 120 (UK) (Tube Guitar Amp)
BurnSphere (DE) Lead (Tube Guitar Amp)
Marcus II (US) Lead (Tube Guitar Amp)
Modern (US) CH3 (Tube Guitar Amp)
Rock 75 (UK) (Tube Guitar Amp)
Rock 22.10 (UK) (Tube Guitar Amp)
Darkface 65 2x12 (Guitar Cabinet)
Top30 2x12 (Guitar Cabinet)
Modern 4x12 (Guitar Cabinet)
Green 2x12 (Guitar Cabinet)
Vintage 4x12 (Guitar Cabinet)
Green 4x12 (Guitar Cabinet)
Caliper 50 1x10 (Guitar Cabinet)
Bluelux 1x12 (Guitar Cabinet)
Clst 1x12 (Guitar Cabinet)
England 4x12 (Guitar Cabinet)
Bass Tube 1x15 (Guitar Cabinet)

Thunderbolt 3 and USB 2.0 Compatible

Orion Studio Synergy Core underwent a certification process to ensure operating system compatibility and stability with Thunderbolt 3 devices. The interface is backwards-compatible with Thunderbolt 2. It's also compatible with USB 2.0 devices.

Low Latency

Record and monitor with maxed-out effects chains at high sample rates and low buffer sizes, all without taxing your CPU. You can enjoy latency-free direct monitoring over 4 independent internal mixers with 32 assignable inputs and stereo outputs.

12 Discrete Preamps

The outcome of a long hard look into iconic microphone preamp circuitry are discrete transistor pres that embody well-renowned audio engineering practices, all while accommodating Edge and Verge modeling condenser microphones.

Go Direct into Converters

All Orion Studio Synergy Core analog inputs have a direct-in feature. This allows you to bypass the preamp controls and record line-in signals directly into the converters.

Analog and Digital Flexibility

There's no task too big or too small for the Orion Studio Synergy Core. Record high-impedance instruments, such as the electric guitar through four Hi-Z inputs, and ability to reamp tracks through the special purpose reamp outputs and inputs. Take advantage of all 16 line outputs on DB25 connectors. Handle digital audio via S/PDIF and ADAT. Freely route all incoming and outgoing audio from an intuitive software routing matrix. Then, hear the results from two pairs of headphones or studio monitors. You'll also find an integrated talkback microphone.

Software Control Panel

The software control panel is the mediator between the Orion Studio Synergy Core and your DAW. Handle gain adjustments, signal routing, effects processing, mixing, and metering from a single window. Route the resulting audio into your DAW for recording in formats of your choice, such as multitrack, stem, and two-channel stereo. Gone DAWless? Route any audio to any output and take it to the recording medium of your choice.

130 dB Dynamic Range

With an array of 12 audiophile-grade DACs, capable of up to 192 kHz sample rates and 130 dB dynamic range conversion at the monitor outputs, Orion Studio Synergy Core is capable of handling a wide range of audio material. Capture your voice, instruments, or mixing desk outputs exactly as they sound, with

precision.

64-Bit Acoustically Focused Clocking

The pioneer of atomic clocking in pro audio, Antelope Audio incorporates more than 20 years of expertise in its audio interfaces. The proprietary 64-bit Acoustically Focused Clocking jitter management algorithm helps deliver the kind of artifact-free audio once accessible only to the most prestigious studios. Furthermore, with the Word Clock outputs, you can distribute highly stable clocking across the rest of your digital gear to have everything running smoothly in sync.

Antelope Orion Studio Synergy Specs

Form Factor Rackmount (Rack-Mountable with Optional Hardware)

Display 1 x LCD

Channels of I/O Thunderbolt:

32 Input / 32 Output

USB:

24 Input / 24 Output

Analog:

14 Input / 24 Output

Maximum Sampling Rate 192 kHz / 24-Bit

Number of Microphone Preamps 12 Preamps

Built-In Microphone Yes

Input Level Adjustment 1 x Knob

via Software

Expansion Slots None

Signal Processing

Pad None

Gain/Trim Range AD/DA Converters:

Up to 130 dB

Combo XLR-1/4" Mic Inputs:

75 dB

High-Pass Filter None

Solo/Mute None

Connectivity

Analog Audio I/O 8 x Combo XLR-1/4" TRS Mic/Line Input (DC-Coupled)

4 x Combo XLR-1/4" TRS Mic/Line/Hi-Z Input

2 x 1/4" TRS Insert Input

2 x 1/4" TRS Headphone Output

4 x 1/4" TRS Monitor Output

2 x 1/4" TRS Re-Amp Output

16 x DB-25 25-Pin Output (on Optional Breakout Cable)

Digital Audio I/O 2 x TOSLINK Optical ADAT Input

2 x TOSLINK Optical ADAT Output

1 x RCA Coaxial S/PDIF Input

1 x RCA Coaxial S/PDIF Output

Host Connection / USB 1 x Thunderbolt/MDP (Thunderbolt 3)

1 x USB Type-B (USB 2.0)

USB (Non-Host) None

Sync I/O 1 x BNC Word Clock Input

1 x BNC Word Clock Output

Network I/O None

MIDI I/O None

Wireless Connectivity Wi-Fi (Remote Control)

Performance

Maximum Input Level Mic Inputs:

+18 dBu

Dynamic Range A/D Converters:

124 dB

D/A Converters:

128 dB

Monitor D/A Converters:

130 dB

THD Mic:

-106 dB
THD+N A/D Converters:
-112 dB
D/A Converters:
-115 dB
Monitor D/A Converters:
-115 dB
EIN Combo XLR-1/4" Mic Inputs:
-128 dBu
Digital Audio
Sample Rates Up to 192 kHz
Bit Depths Up to 64-Bit
Sync Sources DB-25, Internal
Clocking Internal:
Accuracy: ± 0.2 ppm
Audio Storage & Playback
Memory Card Slot None
Compatibility
OS Compatibility macOS 10.12 or Later
Windows 10 or Later (64-Bit)
Included Software None
Compatible Software (Not Included) Pro Tools
Logic
Ableton Live
Studio One
RAM Requirements 4 GB, 8 GB Recommended
Storage Requirements 4 GB
Mobile Device Compatibility None
Internet Connection Required for Registration, Software/Driver Download
Power
Power Requirements AC/DC Power Adapter (Included)
AC Input Power 18 VAC, 60 Hz
Power Consumption 25 W
Physical
Rackmount Size 1 RU
Operating Temperature 32 to 122°F / 0 to 50°C
Dimensions 19 x 8.6 x 1.7" / 48.3 x 21.8 x 4.3 cm
Weight 6.8 lb / 3.1 kg
Packaging Info
Package Weight 12.065 lb
Box Dimensions (LxWxH) 25 x 13.5 x 4.5"